

## SEQUENCE LISTING

<110> Sato, Taki-Aki

<120> GENE ENCODING NADE, P75NTR- ASSOCIATED  
CELL DEATH EXECUTOR AND USES THEREOF

<130> 0575/59131/JPW/APE

<140> 09/327,750

<141> 1999-06-07

<160> 45

<170> PatentIn version 3.0

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<212> DNA

<213> MOUSE

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<213> MOUSE

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 Ala Gly Asn Asn Asn Asn Asn Asn His Asn His Asn His Asn His His  
 35 40 45

Arg Arg Gly Gln Ala Arg Arg Leu Ala Pro Asn Phe Arg Trp Ala Ile  
 50 55 60  
 Pro Asn Arg Gln Met Asn Asp Gly Leu Gly Gly Asp Gly Asp Asp Met  
 65 70 75 80  
 Glu Met Phe Met Glu Glu Met Arg Glu Ile Arg Arg Lys Leu Arg Glu  
 85 90 95  
 Leu Gln Leu Arg Asn Cys Leu Arg Ile Leu Met Gly Glu Leu Ser Asn  
 100 105 110  
 His His Asp His His Asp Glu Phe Cys Leu Met Pro  
 115 120

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<400> 13

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 Asn Gly Glu Glu Asp Arg Pro Leu Gly Gly Gly Glu Gly His Gln Pro  
 20 25 30  
 Ala Gly Asn Arg Arg Gly Gln Ala Arg Arg Leu Ala Pro Asn Phe Arg  
 35 40 45  
 Trp Ala Ile Pro Asn Arg Gln Ile Asn Asp Gly Met Gly Gly Asp Gly  
 50 55 60  
 Asp Asp Met Glu Ile Phe Met Glu Glu Met Arg Glu Ile Arg Arg Lys  
 65 70 75 80  
 Leu Arg Glu Leu Gln Leu Arg Asn Cys Leu Arg Ile Leu Met Gly Glu  
 85 90 95  
 Leu Ser Asn His His Asp His His Asp Glu Phe Cys Leu Met Pro  
 100 105 110

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Leu Thr Met Lys Glu Val Glu Glu Leu Glu Leu Leu Thr  
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Arg Glu Ile Arg Arg Lys Leu Arg Glu Leu Gln Leu Arg  
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<210> 24  
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Arg Glu Ile Arg Arg Lys Leu Arg Glu Leu Gln Leu Arg  
 1 5 10

<210> 25  
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 <212> PRT  
 <213> MOUSE

<400> 25

Arg Glu Ile Arg Arg Lys Leu Arg Glu Leu Gln Leu Arg Asn Cys Leu  
 1 5 10 15

Arg Ile Leu Met Gly Glu Leu Ser Asn His His  
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<210> 26  
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 <212> PRT  
 <213> HUMAN

<400> 26

Arg Glu Ile Arg Arg Lys Leu Arg Glu Leu Gln Leu Arg Asn Cys Leu  
 1 5 10 15

Arg Ile Leu Met Gly Glu Leu Ser Asn His His  
 20 25

<210> 27  
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 <213> CONSENSUS (MOUSE v. HUMAN)

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 gggaggggct ttaattggag gccccgtaga ggacgcgcgg aacttctaag gtgggaaaaa 180  
 acgaaattaa aaaatccttt gatatcaggg ctctgaatcc tgctgggtcag agcaccaagc 240  
 attcagtctc tctccttgcc tttgtcttac ttgtgttcaa agaaaaacaa ccagaaaaaa 300  
 aaaatctcat catggcaaat attcaccagg aaaacgaaga gatggagcag cctatgcaga 360  
 atggagagga agaccgccct ttgggaggag gtgaaggcca ccagcctgca ggaaatcgac 420  
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ctttactgat ccgtttgctg tgaaccctat gttattttcca tgtgtcaagt gggctcttgtg      780
ttgccagctt ctatttgaag attgcctttg cactcagtgt aagtttctgt cagcagtagt      840
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<210> 30  
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Met Glu Ser Lys Asp Gln Gly Val Lys Asn Leu Asn Met Glu Asn Asp
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20      25      30
Arg Glu Pro Ala Val Ala Leu Ile Ser Glu Ala Gly Lys Asn Cys Ala
35      40      45
Pro Arg Gly Gly Arg Arg Arg Phe Arg Val Arg Gln Pro Ile Ala His
50      55      60
Tyr Arg Trp Asp Leu Met Gln Arg Val Gly Glu Pro Gln Gly Arg Met
65      70      75      80
Arg Glu Glu Asn Val Gln Arg Phe Gly Gly Asp Val Arg Gln Leu Met
85      90      95
Glu Lys Leu Arg Glu Arg Gln Leu Ser His Ser Leu Arg Ala Val Ser
100     105     110
Thr Asp Pro Pro His His Asp His His Asp Glu Phe Cys Leu Met Pro
115     120     125

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<210> 31  
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 <213> NANE 3a1

<400> 31

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Met Glu Ser Lys Glu Glu Arg Ala Leu Asn Asn Leu Ile Val Glu Asn
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Val Asn Gln Glu Asn Asp Glu Lys Asp Glu Lys Glu Gln Val Ala Asn
20      25      30
Lys Gly Glu Pro Leu Ala Leu Pro Leu Asn Val Ser Glu Tyr Cys Val
35      40      45
Pro Arg Gly Asn Arg Arg Arg Phe Arg Val Arg Gln Pro Ile Leu Gln
50      55      60
Tyr Arg Trp Asp Ile Met His Arg Leu Gly Glu Pro Gln Ala Arg Met
65      70      75      80

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Arg Glu Glu Asn Met Glu Arg Ile Gly Glu Glu Val Arg Gln Leu Met  
                             85                            90                            95  
 Glu Lys Leu Arg Glu Lys Gln Leu Ser His Ser Leu Arg Ala Val Ser  
                             100                            105                            110  
 Thr Asp Pro Pro His His Asp His His Asp Glu Phe Cys Leu Met Pro  
                             115                            120                            125

<210> 32  
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 <212> PRT  
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Met Glu Ser Lys Glu Lys Arg Ala Val Asn Ser Leu Ser Met Glu Asn  
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 Ala Asn Gln Glu Asn Glu Glu Lys Glu Gln Val Ala Asn Lys Gly Glu  
                             20                            25                            30  
 Pro Leu Ala Leu Pro Leu Asp Ala Gly Glu Tyr Cys Val Pro Arg Gly  
                             35                            40                            45  
 Asn Arg Arg Arg Phe Pro Val Arg Gln Pro Ile Leu Gln Tyr Arg Trp  
                             50                            55                            60  
 Asp Ile Met His Arg Leu Gly Glu Pro Gln Ala Arg Met Arg Glu Glu  
 65                            70                            75                            80  
 Asn Met Glu Arg Ile Gly Glu Glu Val Arg Gln Leu Met Glu Lys Leu  
                             85                            90                            95  
 Arg Glu Lys Gln Leu Ser His Ser Leu Arg Ala Val Ser Thr Asp Pro  
                             100                            105                            110  
 Pro His His Asp His His Asp Glu Phe Cys Leu Met Pro  
                             115                            120                            125

<210> 33  
 <211> 128  
 <212> PRT  
 <213> RAT

<400> 33

Met Glu Ser Lys Asp Gln Gly Ala Lys Asn Leu Asn Met Glu Asn Asp  
 1                            5                            10                            15  
 His Gln Lys Lys Glu Glu Lys Glu Glu Lys Pro Gln Asp Thr Ile Lys  
                             20                            25                            30  
 Arg Glu Pro Val Val Ala Pro Thr Phe Glu Ala Gly Lys Asn Cys Ala  
                             35                            40                            45  
 Pro Arg Gly Gly Arg Arg Arg Phe Arg Val Arg Gln Pro Ile Ser His  
                             50                            55                            60  
 Tyr Arg Trp Asp Leu Met His Arg Val Gly Glu Pro Gln Gly Arg Met  
 65                            70                            75                            80

Arg Glu Glu Asn Val Gln Arg Phe Gly Glu Asp Met Arg Gln Leu Met  
                             85                            90                            95  
 Glu Lys Leu Arg Glu Arg Gln Leu Ser His Ser Leu Arg Ala Val Ser  
                             100                            105                            110  
 Thr Asp Pro Pro His His Asp His His Asp Glu Phe Cys Leu Met Pro  
                             115                            120                            125

<210> 34  
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Met Ala Ser Lys Val Lys Gln Val Ile Leu Asp Leu Thr Val Glu Lys  
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 Asp Lys Lys Asn Lys Lys Gly Gly Lys Ala Ser Lys Gln Ser Glu Glu  
                             20                            25                            30  
 Glu Ser His His Leu Glu Glu Val Glu Asn Lys Lys Pro Gly Gly Asn  
                             35                            40                            45  
 Val Arg Arg Lys Val Arg Arg Leu Val Pro Asn Phe Leu Trp Ala Ile  
                             50                            55                            60  
 Pro Asn Arg His Val Asp His Ser Glu Gly Gly Glu Glu Val Gly Arg  
 65                            70                            75                            80  
 Phe Val Gly Gln Val Met Glu Ala Lys Arg His Ser Lys Glu Gln Gln  
                             85                            90                            95  
 Met Arg Pro Tyr Thr Arg Phe Arg Thr Pro Glu Pro Asp Asn His Tyr  
                             100                            105                            110  
 Asp Phe Cys Leu Ile Pro  
                             115

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 <213> NADE 3b

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Met Ala Ser Lys Lys Gln Val Ile Leu Asp Leu Thr Val Glu Lys Asp  
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 Lys Lys Asp Lys Arg Gly Gly Lys Ala Ser Lys Gln Ser Glu Glu Glu  
                             20                            25                            30  
 Pro His His Leu Glu Glu Val Glu Asn Lys Lys Pro Gly Gly Asn Val  
                             35                            40                            45  
 Arg Arg Lys Val Arg Arg Leu Val Pro Asn Phe Leu Trp Ala Ile Pro  
                             50                            55                            60  
 Asn Arg His Val Asp Arg Asn Glu Gly Gly Glu Asp Val Gly Arg Phe  
 65                            70                            75                            80

val val Gln Gly Thr Glu Val Lys Arg Lys Thr Thr Glu Gln Gln Val  
                             85                            90                            95  
 Arg Pro Tyr Arg Arg Phe Arg Thr Pro Glu Pro Asp Asn His Tyr Asp  
                             100                            105                            110  
 Phe Cys Leu Ile Pro  
                             115

<210> 36  
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 <213> NADE 1

<400> 36

Met Ala Asn Ile His Gln Glu Asn Glu Glu Met Glu Gln Pro Met Gln  
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 Asn Gly Glu Glu Asp Arg Pro Leu Gly Gly Gly Glu Gly His Gln Pro  
                             20                            25                            30  
 Ala Gly Asn Arg Arg Gln Ala Arg Arg Leu Ala Pro Asn Phe Arg Trp  
                             35                            40                            45  
 Ala Ile Pro Asn Arg Gln Ile Asn Asp Gly Met Gly Gly Asp Gly Asp  
                             50                            55                            60  
 Asp Met Glu Ile Phe Met Glu Glu Met Arg Glu Ile Arg Arg Lys Leu  
 65                            70                            75                            80  
 Arg Glu Leu Gln Leu Arg Asn Cys Leu Arg Ile Leu Met Gly Glu Leu  
                             85                            90                            95  
 Ser Asn His His Asp His His Asp Glu Phe Cys Leu Met Pro  
                             100                            105                            110

<210> 37  
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 <212> PRT  
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 Gly Glu Gly His Gln Pro Ala Ala Ala Asn Asn Asn Asn His Asn His  
                             20                            25                            30  
 Asn His His Asn His Ser His Asn His Asn His His Arg Arg Gly Gln  
                             35                            40                            45  
 Ala Arg Arg Leu Ala Pro Asn Phe Arg Trp Ala Ile Arg Asn Arg Gln  
                             50                            55                            60  
 Met Asn Asp Gly Leu Gly Gly Asp Gly Asp Asp Met Glu Met Phe Met  
 65                            70                            75                            80  
 Glu Glu Met Arg Glu Ile Arg Arg Lys Leu Arg Glu Leu Gln Leu Arg  
                             85                            90                            95

Asn Cys Leu Arg Ile Leu Met Gly Glu Leu Ser Asn His His Asp His  
 100 105 110

His Asp Glu Phe Cys Leu Met Pro  
 115 120

<210> 38  
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 <212> PRT  
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<400> 38

Met Ala Asn Val His Gln Glu Asn Glu Glu Met Glu Gln Pro Leu Gln  
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Asn Gly Gln Glu Asp Arg Pro Val Gly Gly Gly Glu Gly His Gln Pro  
 20 25 30

Ala Ala Asn Asn Asn Asn Asn His Asn His Asn His His Arg Arg  
 35 40 45

Gly Gln Ala Arg Arg Leu Ala Pro Asn Phe Arg Trp Ala Ile Pro Asn  
 50 55 60

Arg Gln Met Asn Asp Gly Leu Gly Gly Asp Gly Asp Asp Met Glu Met  
 65 70 75 80

Phe Met Glu Glu Met Arg Glu Ile Arg Arg Lys Leu Arg Glu Leu Gln  
 85 90 95

Leu Arg Asn Cys Leu Arg Ile Leu Met Gly Glu Leu Ser Asn His His  
 100 105 110

Asp His His Asp Glu Phe Cys Leu Met Pro  
 115 120

<210> 39  
 <211> 111  
 <212> PRT  
 <213> NADE 2

<400> 39

Met Glu Asn Val Pro Lys Glu Asn Lys Val Val Glu Lys Ala Pro Val  
 1 5 10 15

Gln Asn Glu Ala Pro Ala Leu Gly Gly Gly Glu Tyr Gln Glu Pro Gly  
 20 25 30

Gly Asn Val Lys Gly Val Trp Ala Pro Pro Ala Pro Gly Phe Gly Glu  
 35 40 45

Asp Val Pro Asn Arg Leu Val Asp Asn Ile Asp Met Ile Asp Gly Asp  
 50 55 60

Gly Asp Asp Met Glu Arg Phe Met Glu Glu Met Arg Glu Leu Arg Arg  
 65 70 75 80

Lys Ile Arg Glu Leu Gln Leu Arg Tyr Ser Leu Arg Ile Leu Ile Gly  
 85 90 95

Asp Pro Pro His His Asp His His Asp Glu Phe Cys Leu Met Pro  
 100 105 110

<210> 40  
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 <213> MOUSE

<400> 40

Arg Glu Ile Arg Arg Lys Leu Arg Glu Leu Gln Leu Arg  
 1 5 10

<210> 41  
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 <212> PRT  
 <213> HUMAN

<400> 41

Arg Glu Ile Arg Arg Lys Leu Arg Glu Leu Gln Leu Arg  
 1 5 10

<210> 42  
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 <212> PRT  
 <213> Rev

<400> 42

Leu Pro Pro Leu Glu Arg Leu Thr Leu Asp  
 1 5 10

<210> 43  
 <211> 12  
 <212> PRT  
 <213> MOUSE

<400> 43

Ala Leu Gln Lys Lys Leu Glu Glu Leu Glu Leu Asp  
 1 5 10

<210> 44  
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 <212> PRT  
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Leu Thr Met Lys Glu Val Glu Glu Leu Glu Leu Leu  
 1 5 10

<210> 45  
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<400> 45

Leu Ala Leu Lys Leu Ala Gly Leu Asp Ile  
 1 5 10

59131.ST25